

WHAT IS CLAIMED IS:

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1. A radiation image conversion panel comprising at least two phosphor layers each containing a stimuable phosphor and a binder, wherein an amount (by weight) of the binder to the stimuable phosphor in uppermost phosphor layer of the phosphor layers is greater than that of the binder to the stimuable phosphor in any other phosphor layers.

2. A radiation image conversion panel according to claim 1, wherein the amount (by weight) of the binder to the stimuable phosphor in the uppermost phosphor layer is greater than that of the binder to the stimuable phosphor in any other phosphor layers by at least 0.5 wt%.

3. A radiation image conversion panel according to claim 1, wherein the amount (by weight) of the binder to the stimuable phosphor in the uppermost phosphor layer is greater than that of the binder to the stimuable phosphor in any other phosphor layers by 1 to 100 wt%.

4. A radiation image conversion panel according to claim 1, wherein the stimuable phosphor results a stimulated emission of a wavelength in the range of 300 to 500nm when the stimuable phosphor is irradiated with stimulating rays of a wavelength in the range of 400 to 900nm.

5. A radiation image conversion panel according to claim 1, wherein the stimuable phosphor is a phosphor selected from the group consisting of a bivalent europium-activated alkaline earth metal halide phosphor, a cerium-activated alkaline earth metal halide based phosphor, and a cerium-activated rare earth oxyhalide based phosphor.

6. A radiation image conversion panel according to claim 1, wherein the stimuable phosphor has a grain size ranging from 1 to 15 μm .

7. A radiation image conversion panel according to claim 1, wherein the binder is a thermoplastic elastomer.

8. A radiation image conversion panel according to claim 7, wherein the thermoplastic elastomer includes at least one elastomer selected from the group consisting of polystyrene, polyolefine, polyurethane, polyester, polyamide, polybutadiene, ethylene vinyl acetate, polyvinyl chloride, natural rubber, fluorine-contained rubber, polyisoprene, chlorinated polyethylene, styrene-butadiene rubber, and silicon rubber.

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